

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-6. (Cancelled)

7. (Previously Presented) A method of generating a data dump in a data processing system, the method comprising the computer implemented steps of:

initializing a system boot of the data processing system;

executing a firmware that includes first failure data capture logic;

creating a data dump in a persistent storage of the data processing system;

evaluating a fault type of the data processing system; and

writing a plurality of data items to the data dump, wherein the writing of the data items is dynamically reprioritized dependent on the fault type.

8. (Currently Amended) A computer program product encoded in a computer [[readable]] recordable medium and operable for generating a data dump in a data processing system when executed by the data processing system, the computer program product comprising:

first instructions for evaluating a reset type of the data processing system;

second instructions for determining whether a valid data dump is maintained by the data processing system; and

third instructions, responsive to determining that a valid data dump is not maintained by the data processing system, for executing first failure data capture logic during a boot of the data processing system, including sub-instructions that obtain a priority item from a plurality of priority items to write to a data dump in the persistent storage.

9. (Original) The computer program product of claim 8, wherein the third instructions evaluate a capacity of a persistent storage.

10. (Previously Presented) The computer program product of claim 9, wherein the sub-instructions that obtain a priority item from a plurality of priority items to write to a data dump in the persistent storage are responsive to determining that additional capacity remains in the persistent storage.

11. (Original) The computer program product of claim 10, wherein the plurality of priority items are sequenced according to a reset type.

12. (Currently Amended) A computer program product encoded in a computer [[readable]] recordable medium and operable for generating a data dump in a data processing system when executed by the data processing system, the computer program product comprising:

first instructions for evaluating a reset type of the data processing system;

second instructions for determining whether a valid data dump is maintained by the data processing system;

third instructions, responsive to determining that a valid data dump is not maintained by the data processing system, for executing first failure data capture logic during a boot of the data processing system;

fourth instructions for evaluating a plurality of priority items in a priority list; and

fifth instruction, responsive to the fourth instructions evaluating each of the plurality of priority items as having been written to a data dump, that finalize the data dump for storage.

13. (Original) The computer program product of claim 12, wherein the fifth instructions, responsive to the data dump being finalized for storage, that terminate execution of the first failure data capture logic.

14. (Original) The computer program product of claim 13, further comprising:

sixth instructions, responsive to the first failure data capture logic being terminated, that attempt to restart a system kernel of the data processing system.

15-22. (Cancelled)